

BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineer
Byatarayanapura Division
B.B.M.P., Bangalore - 92

DRAFT TENDER SCHEDULE

Issued to :

Original / Duplicate

Name of Work: Providing and Installation of RO Water Plant in Ward No. 10 (Doddabommasandra).

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
1	25.38	Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	204.12	Rupees Two Hundred Four and Twelve Paise Only
2	4.15	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	5256.36	Rupees Five Thousand Two Hundred Fifty Six and Thirty Six Paise Only
3	3.47	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 , stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	4521.96	Rupees Four Thousand Five Hundred Twenty One and Ninety Six Paise Only
4	1.95	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	5405.40	Rupees Five Thousand Four Hundred Five and Forty Paise Only
5	25.38	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	137.16	Rupees One Hundred Thirty Seven and Sixteen Paise Only
6	35.70	Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	979.56	Rupees Nine Hundred Seventy Nine and Fifty Six Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
7	9.58	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal , coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplasticiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining	Cum	6349.32	Rupees Six Thousand Three Hundred Forty Nine and Thirty Two Paise Only
8	0.86	Providing mild T.M.T. reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery etc., complete and as per the directions of the Engineer-in-charge of the work	Tonne	65455.56	Rupees Sixty Five Thousand Four Hundred Fifty Five and Fifty Six Paise Only
9	68.39	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	316.44	Rupees Three Hundred Sixteen and Forty Four Paise Only
10	18.81	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	208.44	Rupees Two Hundred Eight and Forty Four Paise Only
11	37.23	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	224.64	Rupees Two Hundred Twenty Four and Sixty Four Paise Only
12	56.04	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	27.00	Rupees Twenty Seven Only
13	53.46	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	213.84	Rupees Two Hundred Thirteen and Eighty Four Paise Only
14	93.27	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labours, etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	76.68	Rupees Seventy Six and Sixty Eight Paise Only
15	53.46	Providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after thorough brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	90.72	Rupees Ninety and Seventy Two Paise Only
16	29.43	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	88.56	Rupees Eighty Eight and Fifty Six Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
17	12.41	Providing and fixing Special make glazed Vitrified tiles (Granomite finis) of approved make, quality and colour of sized 6000x600x10mm thick fixed on existing flooring with special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	1285.20	Rupees One Thousand Two Hundred Eighty Five and Twenty Paise Only
18	4.80	Providing and laying/fixing cement base, precast pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring reads of steps of steps and landin, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of material,s including cutting, griding the edge ti half/full rounf wherever requires labour, curing etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	1171.80	Rupees One Thousand One Hundred Seventy One and Eighty Paise Only
19	1.08	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size, all steel section should confirm to I.S. 7452:1990, 4nos, of holdfasts of approved size section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery etc., complete and as per the rawl Plugs and teak wood gutties to R.C.C. colu	Sqm	3812.40	Rupees Three Thousand Eight Hundred Twelve and Forty Paise Only
20	6.30	KSRB: 7.5 Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & operations complete Including pulling hooks, 4nos handles wit hall fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8m etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	3090.96	Rupees Three Thousand Ninety and Ninety Six Paise Only

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
21	8.76	Providing, fabricating, assembling and fixing in position anodized aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.05kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m aluminium louvers section of size 36.5mm x 34.93mm 1.45mm. thick section weight 0.426kg/m; bottom portions provided with 12mm. thick pre-laminated sheet both sides of approved colour lamination exterior grade upto 0.9m height, spacing of vertical member not exceeding 0.6 m c to c; sections are cut to the required lengths, joints mitred and corners grinded subdividing frames tennoned and riveted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, directions of the Engineer-in-charge of the workmns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement	Sqm	3492.72	Rupees Three Thousand Four Hundred Ninety Two and Seventy Two Paise Only
22	112.50	Earthwork excavation for pipeline trenches including deporting or bank up to a lead of 50 mtrs including sharing and strutting danger lighting and using site rails and boring poles at every 100 mtrs wherever necessary as directed in th following structure manhole. Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil	Cum	188.00	Rupees One Hundred Eighty Eight Only
23	250.00	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and includng lowering into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the excecavation Etc., Page No.15 item No.3.4.2 b PRED SR 2012-13.	Rmtr	157.00	Rupees One Hundred Fifty Seven Only
24	26.82	KSRRB M1200-46. Sand filling in wells complete as per drawing and technical specifications MORTH Specification No.1207 Page No. 213, Page No. 26.124, PWD SR 2016-17	Cum	2922.42	Rupees Two Thousand Nine Hundred Twenty Two and Forty Two Paise
25	85.68	Refilling the basement and pipeline treanches with seclated available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs Page No. 3 / Item No. 1.6 / PRED SR 2012-13	Cum	61.00	Rupees Sixty One Only
26	5	KSRRB13-6.3-7 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. P. No.92 / I. No. 13.38 PWD SR 2016-17	Each	2729.50	Rupees Two Thousand Seven Hundred Twenty Nine and Fifty Paise Only
		10000 LPD R.O. Plant			
		RAW WATER PUMP:			
		Quantity : 1No.			
		Type: Centrifugal Mono Block			
		MOC & Make : UKL			
		Motor Rating : 0.75 HP			
		PRESSURE SAND FILTER:			
		Quantity : 1No.			
		Capacity : 1000 LPH			
		MOC & Make of Housing : UKL			
		MOC & Make of Cartridge : UKL			
		Capcity : 100 LPH			
		MOC & Make of Vessel : UKL			
		Diameter : 40 mm			
		Type of Valve : Single Multiport			
		media : Support bed + Sand			
		MICRON CARTRIDGE FILTER :			
		Quantity : 1 Set.			

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
27	1	Filter Rating : 5 Microns Size : 20 " Long ANTISCALANT DOSING PUMPS: Quantity : 1 Set Type : Electro - magnetic Capacity : 1.5 LPH @ 4 Bar HIGH PRESSURE PUMP: Quantity : 1 No Capacity : 1700 LPH Type of Pump : Vertical Multistage Centrigugal Pump MOC : SS 304 Motor Rating : 2 HP, 3 Phase Maximum Pressure : 12 Kg/ cm2 Make : UKL RESERVE OSMOSIS SYSTEM : Quantity : 1 No Capacity : 1000 LPH Module Type Membrane Specifications (Polyamde) Make of Membrane : UKL UV STERILISER Max. Treatment Flow : 1 m3/hr No. of Lamps : 1 No Wattage : 39 W Efficiency : 99.99% Material of Construction : SS 304 PRODUCT WATER QUALITY: Appearance : Crystal Clear Abide by the ISO Standards S S Tank : 304 Grade with 16 guage 2000 liters Capacity 304 Grade 10 Gauage SS Pipe {with stream valve} 25 Ft COIN BOOTH DISPENSING UNIT for 5 Liters & 20 Ltrs Separately Raw Water Stoage Tank : Dunction - for Storage of Raw Water Type / MOC : Two / Three Layered PE tanks White / Transparent in color made from virgin material of food grade Quality suitable for the purpose of providing Storage Drinking / Portable Water : 5000 Liters Capacity	Nos	946000.00	Rupees Nine Hundred Forty Six Thousand Only
28	6	ELECTRIFICATION Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable conforming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch etc., complete and as per the directions of the Engineer-in-charge of the work	Point	245.00	Rupees Two Hundred Forty Five Only
29	6	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Point	363.00	Rupees Three Hundred Sixty Three Only
30	30	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.5) 4"x4"x3" (101x101x76mm) etc., complete and as per the directions of the Engineer-in-charge of the work	Each	68.00	Rupees Sixty Eight Only
31	18	(1.6.1) 12"x12"x3" (300x300x76mm)	Each	116.00	Rupees One Hundred Sixteen Only
32	15	(1.6.3) 10"x7"x3" (254x178x76mm)	Each	87.00	Rupees Eighty Seven Only

Sl. No.	Quantity	Description	Unit	Rates	
				In Figures	In Words
33	33333	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws etc., complete and as per the directions of the Engineer-in-charge of the work	SqCM	0.25	and Twenty Five Paise Only
34	30	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	21.00	Rupees Twenty One Only
35	25	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	56.00	Rupees Fifty Six Only
36	4	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps etc., complete and as per the directions of the Engineer-in-charge of the work	Each	88.00	Rupees Eighty Eight Only
37	4	Supplying patti type fluorescent tube light fitting of 2' - suitable for 14 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast, locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC. Supply including T5 lamp etc., complete and as per the directions of the Engineer-in-charge of the work	Each	591.00	Rupees Five Hundred Ninety One Only
38	15	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	18.60	Rupees Eighteen and Sixty Paise Only
39	8	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 60/100 watts 230V GLS lamp etc., complete and as per the directions of the Engineer-in-charge of the work	Each	747.00	Rupees Seven Hundred Forty Seven Only
40	1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia etc., complete and as per the directions of the Engineer-in-charge of the work	No	2727.00	Rupees Two Thousand Seven Hundred Twenty Seven Only
41	30.00	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	140.40	Rupees One Hundred Forty and Forty Paise Only
42	30.00	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	10.80	Rupees Ten and Eighty Paise Only
43	25.00	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete For Cutting Road Surface etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	85.00	Rupees Eighty Five Only

No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
44	4.00	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 40mm dia GI pipe etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	345.00	Rupees Three Hundred Forty Five Only
45	1.00	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers 16Sqmm etc etc., complete and as per the directions of the Engineer-in-charge of the work	No.	280.00	Rupees Two Hundred Eighty Only

"NO IF CONDITION TWO"

"DTS"

"APPROVED"

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ಶಿಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Byatarayanapura Division
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Note:

- 1 Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of quantities (refer: ITB Clause 7.2 and CC Clause 33.2)
- 2 Unit rates and prices shall be quoted by the Tender in Indian rupees.
- 3 Where there is a discrepancy between the rate in figures and words the rates in words will govern (ITB Clause 19.1(a))
- 4 Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity the unit rate quoted shall govern (ITB Clause 19.1(b))